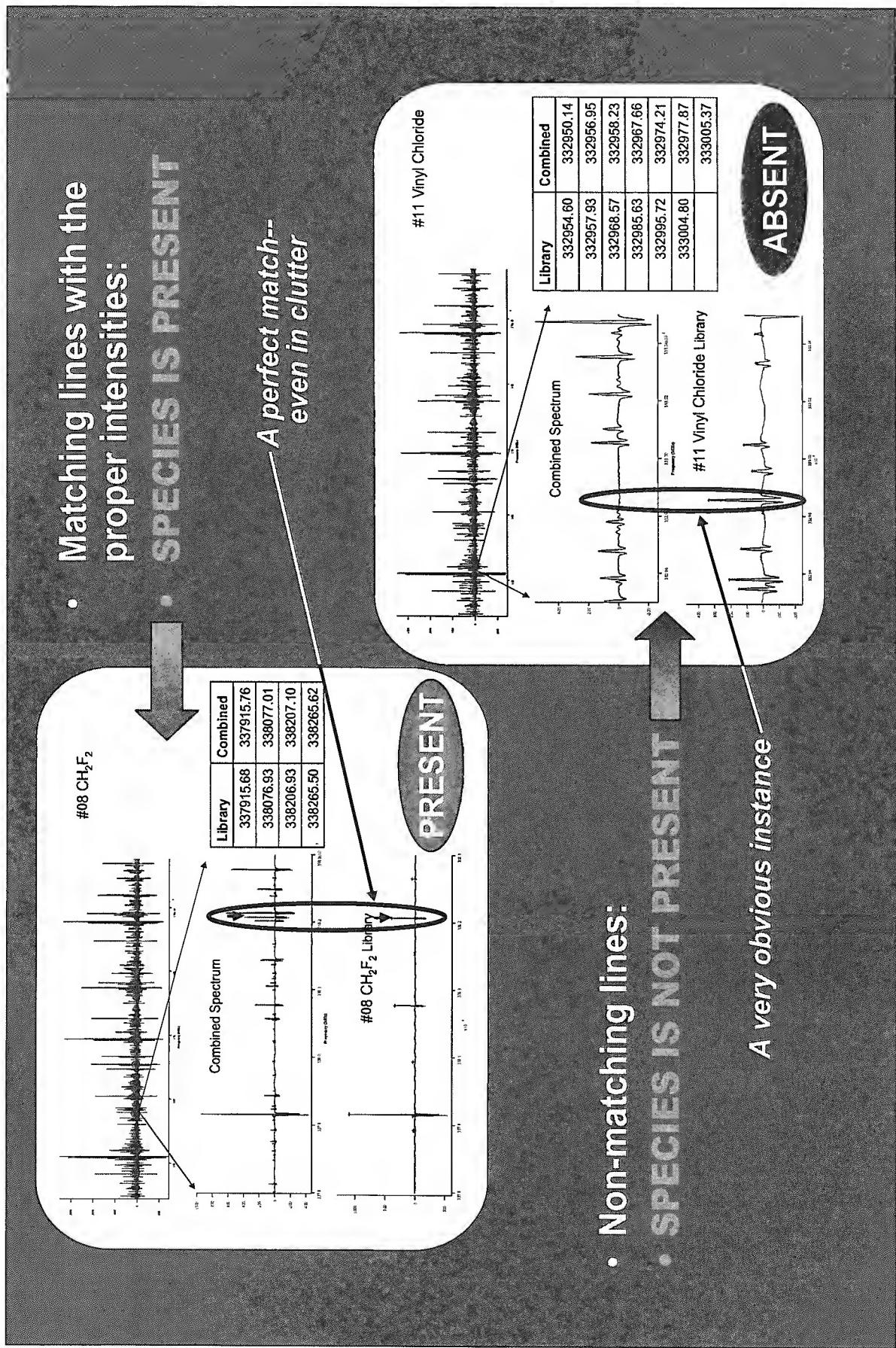


**Figure 1**

Figure 4



# Integrated Tactical Airborne Remote Chemical Spectrometer (ITARCS)

## THz Flight Module Subsystem

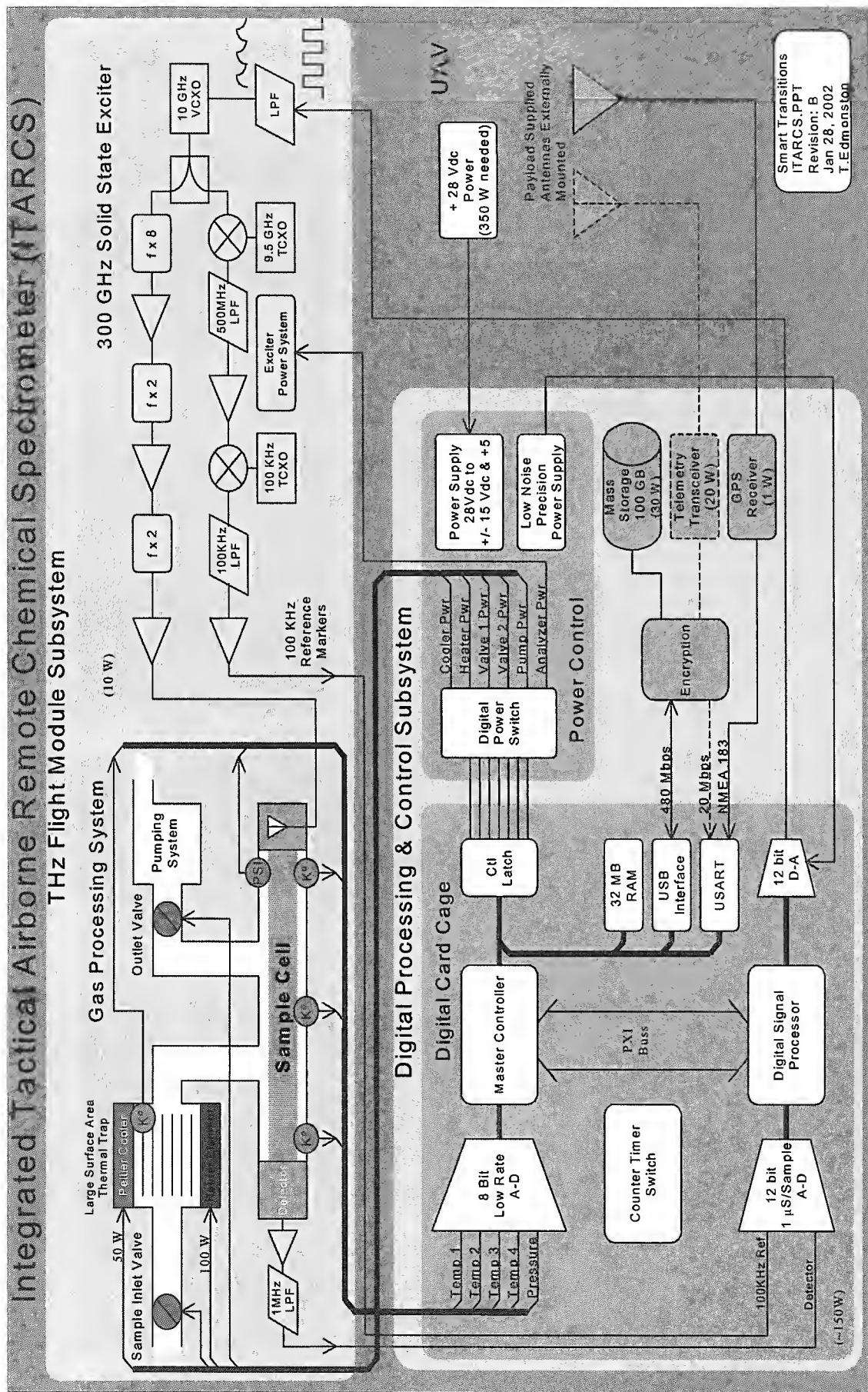


Figure 5

## Amplifier Based 330 GHz Source

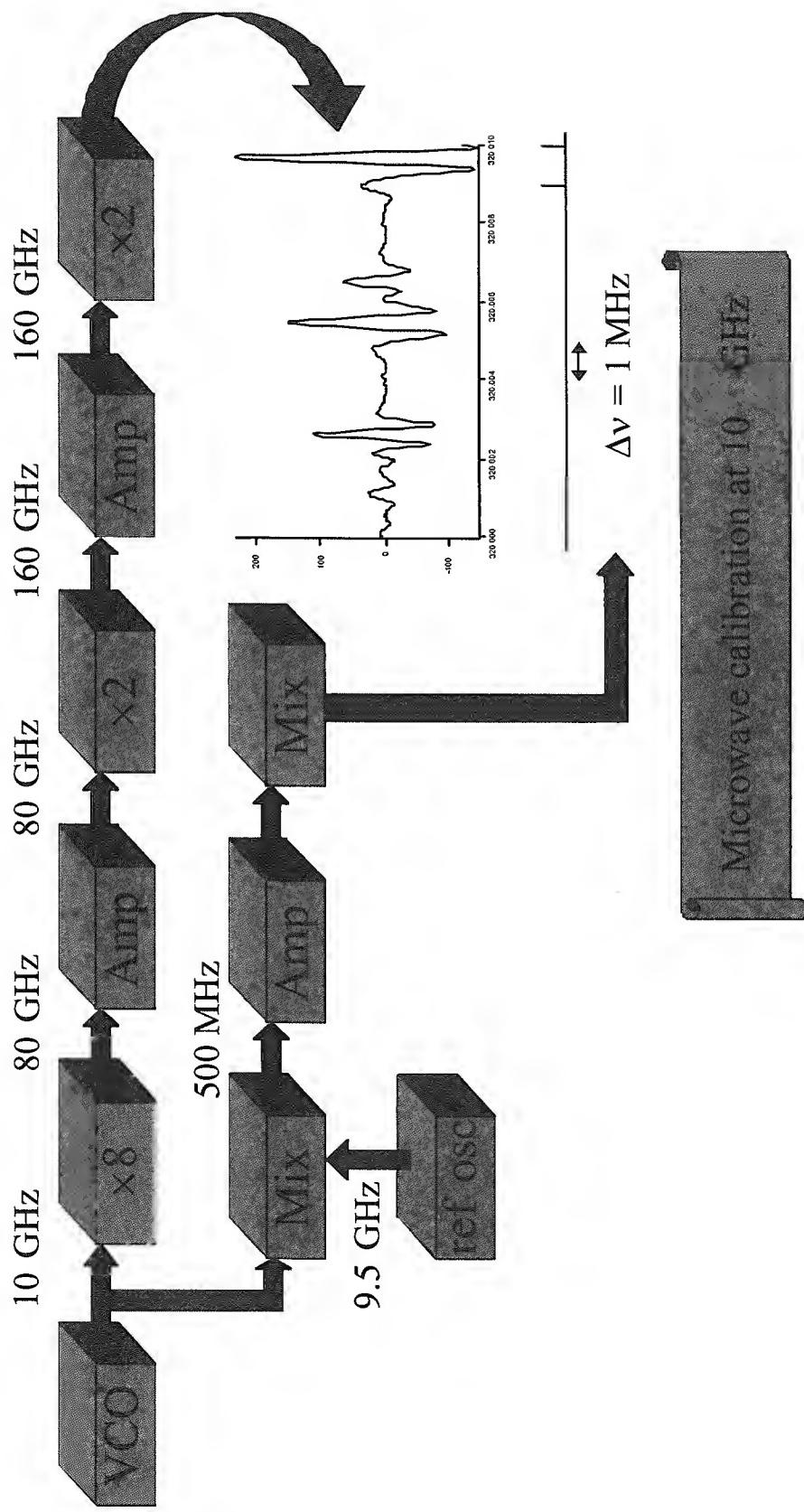


Figure 6

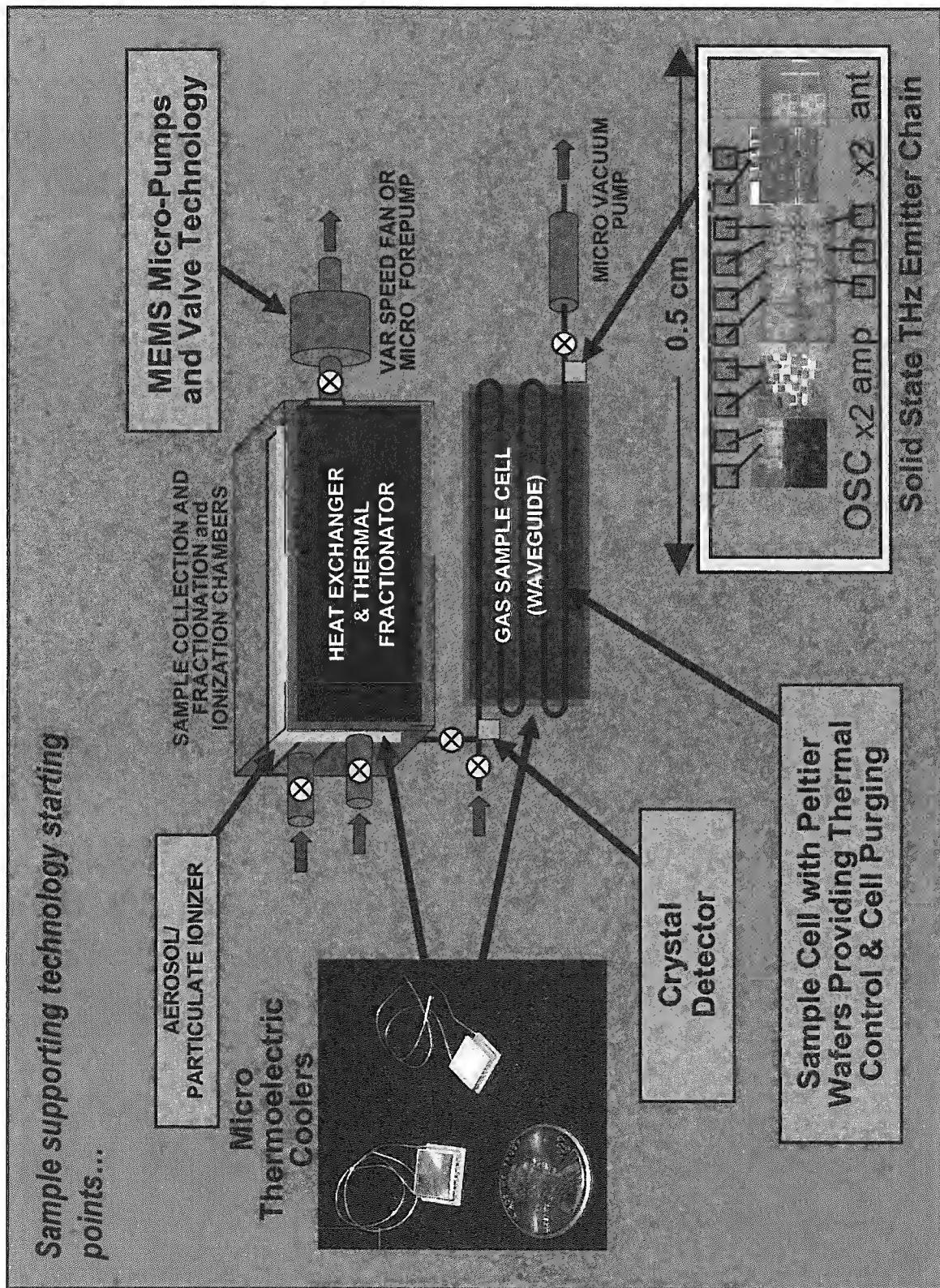


Figure 7

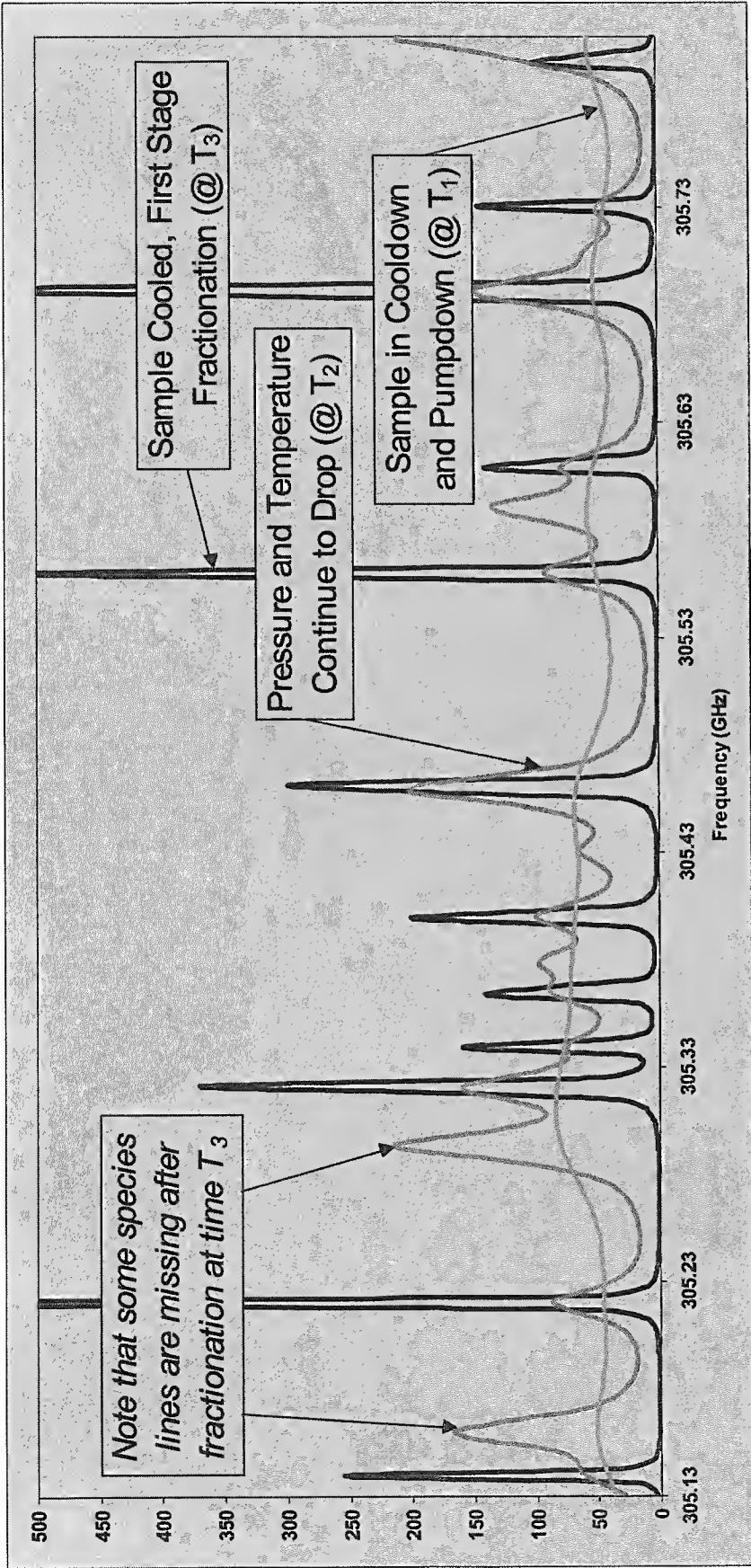


Figure 8

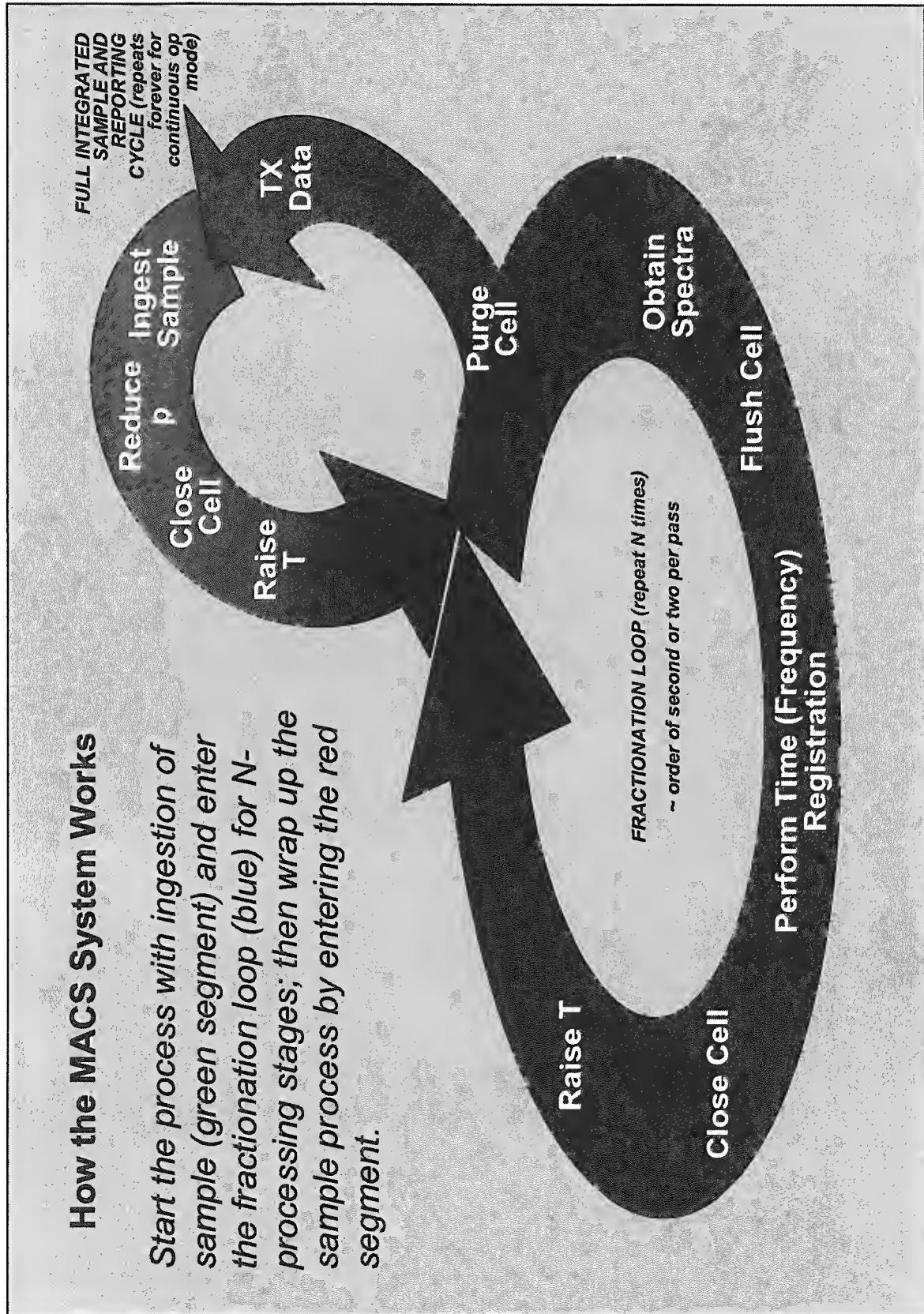


Figure 9

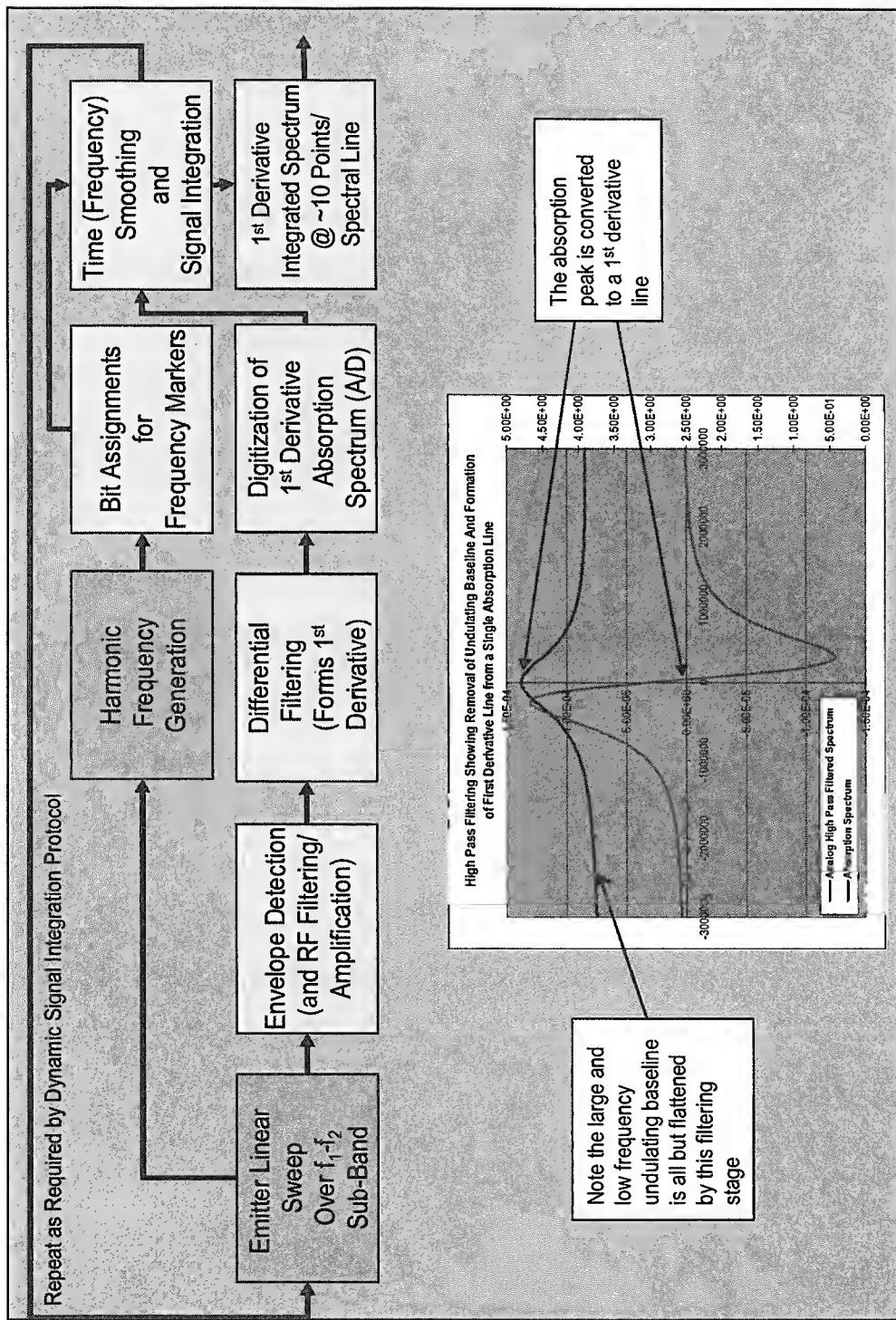


Figure 10 A

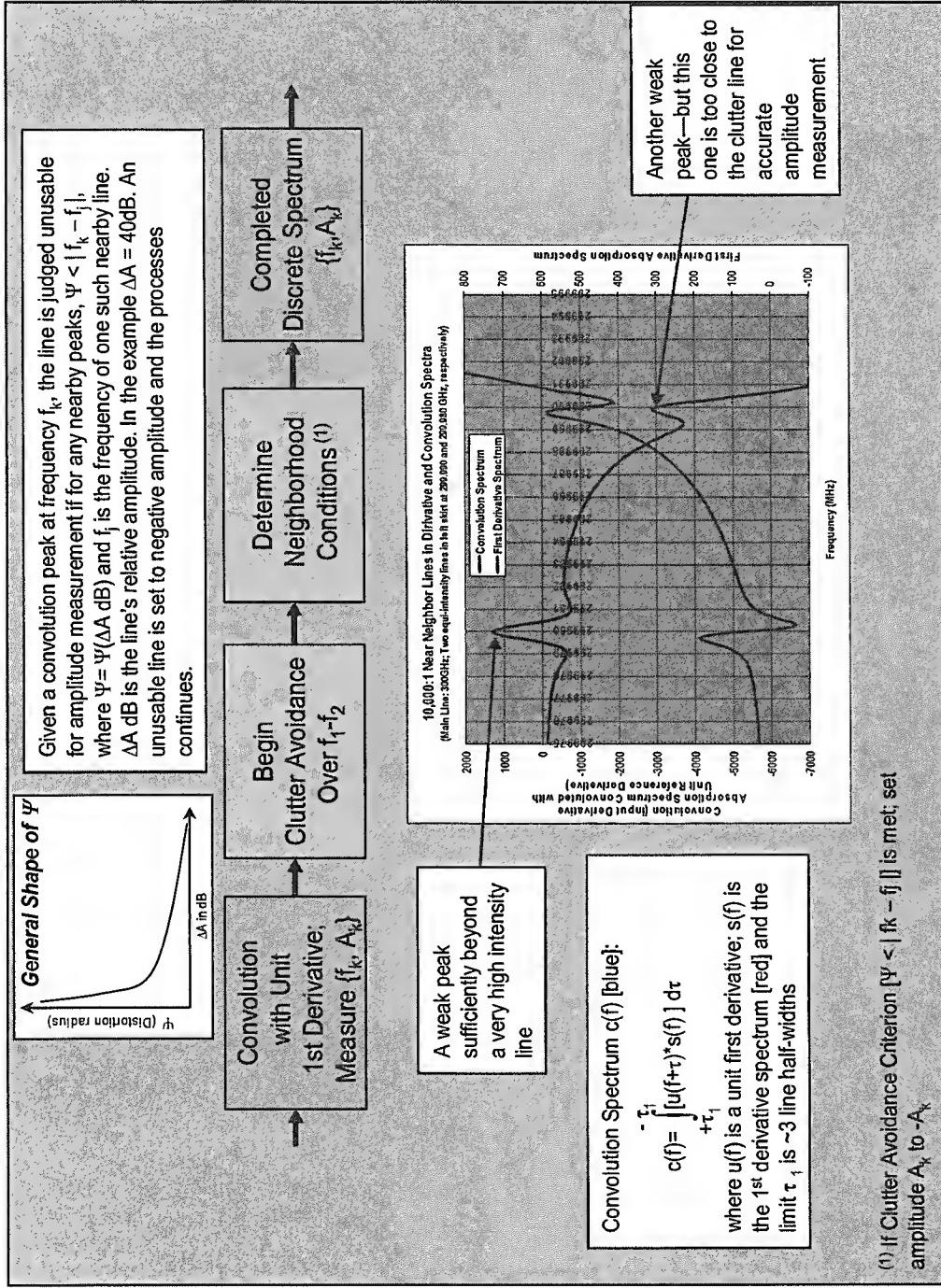
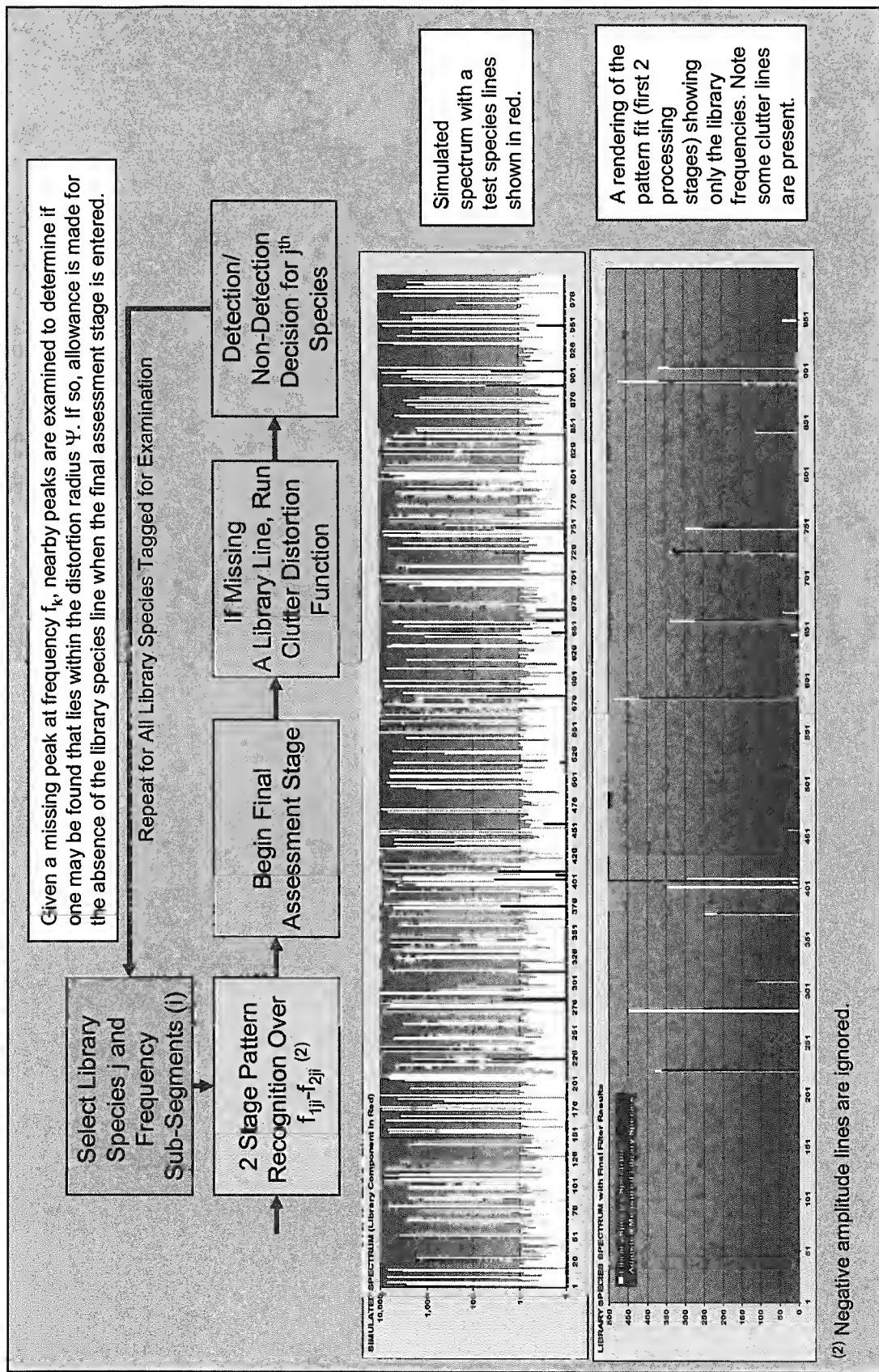


Figure 10 B

(1) If Clutter Avoidance Criterion [ $\Psi < |f_k - f_j|$ ] is met, set amplitude  $A_k$  to  $A_k^{(1)}$



**Figure 10 C**

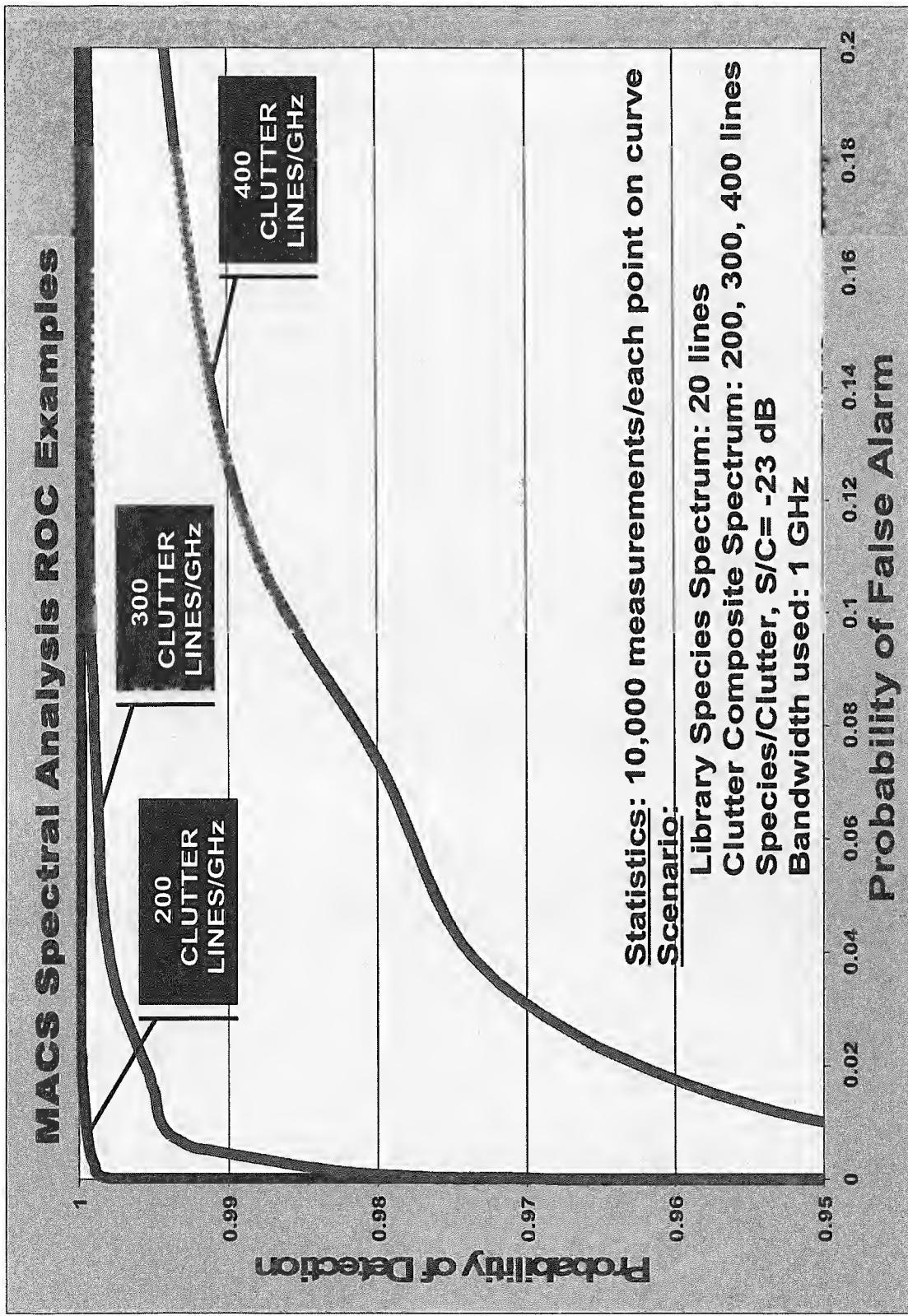


Figure 11